JAP7 Rec'd PCT/PTO 19 MAY 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
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	ANSMITT								DOCKET NUMBER	
	DESIGNAT								FLON NO. (it.known, s	
	ATIONAL APP					NAL FILING		PRIORITY DA	1/5/9	387
.	PCT/FR200					ovember 2			December 2003)
	FINVENTION D FOR TREA	ATING F	LUIDS BY	COAC	GULAT	TION ON M	1EMBBRAN	ES		
APPLICA	ANT(S) FOR D									
	lle Langlais t herewith subr	mits to the	e United Stat	es Des	signate	d/Elected Of	ffice (DO/EO/	US) the followin	g items and other in	nformation:
1. x	This is a FIRS									
2.	This is a SEC	OND or S	UBSEQUE	NT sub	mission	n of items co	ncerning a su	ıbmission under	r 35 U.S.C. 371.	
3.	This is an exp						cedures (35 U	J.S.C. 371(f)). Ti	he submission mus	it
4.	The US has be	een elect	ed (Article 3	1).						
5. x	A copy of the	Internatio	nal Applicati	on as f	iled (35	5 U.S.C. 371	(c)(2))			
a.[x is attache	d hereto	(required on	y if not	comm	unicated by	the Internation	nal Bureau).		
b.[has been	commun	icated by the	Intern	ational	Bureau.				
с.[is not requ	uired, as	the application	on was	filed in	the United	States Receiv	ing Office (RO/	'US).	
6. x	An English lan	nguage tr	anslation of t	he Inte	rnation	nal Application	on as filed (35	U.S.C. 371(c)(2)).	
a.[x is attache	d hereto.								
b.	has been	previous	ly submitted	under :	35 U.S.	.C. 154(d)(4).			
7.	Amendments	to the cla	ims of the In	ternatio	onal Ap	plication un	der PCT Artic	de 19 (35 U.S.C	. 371(c)(3))	
a.[are attach	ed heret	o (required o	nty if n	ot comi	municated b	y the Internat	ional Bureau).		
b.	have beer	n commu	nicated by th	e Inter	nationa	al Bureau.				
c .[have not t	been mad	de; however,	the tim	ne limit	for making s	such amendm	nents has NOT e	expired.	
d .[have not t	been mad	de and will no	ot be m	ade.					
8.	An English lan	nguage tr	anslation of t	he am	endmei	nts to the cla	aims under Po	CT Article 19 (35	5 U.S.C. 371(c)(3)).	
9.	An oath or dec	claration	of the invent	or(s) (3	5 U.S.0	C. 371(c)(4)).			
10.	An English lan Article 36 (35			he ann	exes o	f the Interna	itional Prelimi	nary Examinatio	on Report under PC	भ
Item	s 11 to 20 be	low con	cern docun	nent(s) or inf	formation i	ncluded:			
11. x	An Informatio	n Disclo	sure Statem	ent un	der 37	CFR 1.97	and 1.98.			
12	An assignmen	nt docum	ent for record	ding. A	separa	ate cover sh	eet in complia	ance with 37 CF	R 3.28 and 3.31 is	included.
13. x	A preliminary	amendm	nent.							
14. x	An Application	n Data S	heet under 3	7 CFF	է 1.76.					-
15.	A substitute s	pecificati	on.							
16	A power of att	torney ar	id/or change	of add	al eeart	etter.				
17.	A computer-re	eadable f	orm of the s	equen	ce listir	ng in accord	lance with Po	CT Rule 13ter.2	and 37 CFR 1.82	1 – 1.825.
18.	A second cop	y of the p	oublished Inf	ernatio	onal Ap	plication un	der 35 U.S.C	C. 154(d)(4).		
19.	A second cop	y of the I	English lang	uage tı	ranslati	ion of the in	ternational ap	oplication under	r 35 U.S.C. 154(d)((4).

IAP12 Rec'd PCT/PTO 19 MAY 2006

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U.S. APPLICATION NO (if known see 376 FR(1)5) 8 9 INTERNATIONAL APPLICATION NO. PCT/FR2004/003012						ATTORNEY'S DOCKET NUMBER 21029-00311-US1			
20. x Other items or information: International Search Report; Form PCT/RO/125 Demand & Request; Form PCT/IPEA/416 & 409 Prelim. Exam.; Form PCT/IB/304 Priority Document; Form PCT/IB/308 (2); Return Receipt Postcard									
The foll	owing fees have	e been submitte	ed			CALCULATION	S PTO USEONLY		
21. x Basic	c national fee (3	37 CFR 1.492(a))		\$300	\$ 300.0			
If the written opin	nination fee (37 nion prepared by IS PEA/US indicates a	n report (4)\$0 \$200	\$ 200.00						
If the written opin IPEA/US i Search fee (37 C Internation International Sea previously	ch fee (37 CFR nion of the ISA/US indicates all claims FR 1.445(a)(2)) ha nal Searching Auth rch Report prepare communicated to	nt prepared by \$0 e USPTO as an \$100 he Office or \$400	\$ 500.00						
	TOTAL OF 21, 22					\$ 1,000.0	0		
sequent electron	nce listing in compli nic medium) (37 Cl	iance with 37 CFR FR 1.492(j)).	ed in paper over 100 she 1.821(c) or (e) or compu s of paper or fraction the	uter pr	xcluding ogram listing in an				
Total Sheets	Extra Sheets		additional 50 or fraction up to a whole number)		RATE				
14 -100 =	/50 =				x \$250.00	\$			
Surcharge of \$13 after the date of	30 for furnishing an commencement of	y of the search fee the national stage	, examination fee, or the (37 CFR 1.492(h)).	e oath	or declaration	\$			
CLAIMS	NUM	MBER FILED	NUMBER EXTRA		RATE		1		
Total clain	ns !	9 - 20 =		x		0.00			
Independent		1 - 3 =		×		0.00			
MULTIPLE DEP	ENDENT CLAIM(S	if applicable)		+					
			TOTAL OF A	ABOVE	E CALCULATIONS =	\$ 1,000.00			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.									
					SUBTOTAL =	\$ 1,000.00			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$			
	TOTAL NATIONAL FEE =						\$ 1,000.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property									
		\$	\$						
TOTAL FEES ENCLOSED =						\$	1,000.00		
						Amount to be refunded:	\$		
					Amount to be charged	\$			

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PTO-1390 (Rev. 07-2005)
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action Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. A check in the amount of \$ to cover the above fees is enclosed. Х 22-0185 in the amount of \$ 1,000.00 to cover the above fees. Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit 22-0185 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038 NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: SIGNATURE Morris Liss CONNOLLY BOVE LODGE & HÚTZ LLP 1990 M Street, N.W., Suite 800 Morris Liss Washington, DC 20036 NAME (202) 331-7111 **CUSTOMER NUMBER:** 24,510 REGISTRATION NUMBER

IAP12 Rec'd PCT/PTO 19 MAY 2006

PTO/SB/17 (12-04v2)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL For FY 2005 Application Number Not Yet Assigned	Under the Paperwork Reduction Act of	f 1995, no person are re	respond to a collection of information unless it displays a valid OMB control number.								
FEE TRANSMITTAL For FY 2005 Applicant daims small entity status. See 37 CFR 1.27 Art Unit N/A			Complete if Known Application Number Not Yet Assigned								
Prof FY 2005	l '	·									
Applicant daims small entity status. See 37 CFR 1.27 Art Unit N/A											
METHOD OF PAYMENT (check all that apply)	For FY 2	<u>005 </u>									
METHOD OF PAYMENT (check all that apply)	Applicant claims small entity sta	atus. See 37 CFR 1.27	NI/A			_					
Check Credit Card Money Order None Other (please identify): X Deposit Account Deposit Account Number 22-0185 Deposit Account Name. Connolly Bove Lodge & Hutz LLP	TOTAL AMOUNT OF PAYMENT		No.	21029-00311-	US1						
Check Credit Card Money Order None Other (please identify): X Deposit Account Deposit Account Number 22-0185 Deposit Account Name. Connolly Bove Lodge & Hutz LLP	METHOD OF PAYMENT (chec	k all that apply)									
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee											
Charge fee(s) indicated below Charge fee(s) indicated below, except for the filling fee X Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 X Credit any overpayments X	X Deposit Account Deposit Accoun	t Number: 22-0185 D	eposit Acc	ount Name:	Connoll	y Bove Lodge	& Hutz LL	Р			
Reissue 300 150 500 250 600 300 500 500 250 600 300 500 500 250 600 300 500	For the above-identified dep	oosit account, the Di	rector is	hereby authorize	ed to: (che	ck all that apply)					
Total Claims	x Charge fee(s) indicate	ed below		Charg	e fee(s) ind	dicated below, e	xcept for th	e filing fee			
Design 200 100 150 500 250 200 100 2	Charge any additiona fee(s) under 37 CFR	fee(s) or underpayi 1.16 and 1.17	ment of	x Credit	any overp	ayments					
Pint	FEE CALCULATION										
Name	1. BASIC FILING, SEARCH, AND	EXAMINATION FEE	S								
Design 200 100 500 250 200 100 250 250 200 250 2	 		SE		EXAMIN						
Utility	Application Type Fee (Fee (\$		Fee (\$)		Fees P	aid (\$)			
Plant 200 100 300 150 160 80						· · · · · · · · · · · · · · · · · · ·					
Reissue 300 150 500 250 600 300	Design 200	100	100	50	130	65					
Provisional 200 100 0 0 0 0 0 0 0 0	Plant 200	100	300	150	160	80					
Extra Claims Fee (\$) Fee Paid (\$) Indep. Claims Extra Claims Fee (\$) Fee (\$) Fee Paid (\$) If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Intel Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) 1	Reissue 300	150	500	250	600	300					
Fee (\$) Fee (\$) Fee (\$)	Provisional 200	100	0	0	0	0		-			
Each claim over 20 (including Reissues) Each independent claim over 3 (including Reissues) Multiple dependent claims Total Claims Extra Claims Fee (\$) Fee Paid (\$) Multiple Dependent Claims Fee (\$) Fee Paid (\$) Indep, Claims Extra Claims Fee (\$) Fee Paid (\$) Indep, Claims Extra Claims Fee (\$) Fee Paid (\$) APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) AUTHER FEE(\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): 1631 Basic National Stage fee 1633 National Stage Examination Fee - all other Registration No. (Attomey/Agent) Registration No. (Attomey/Agent) Registration No. (Attomey/Agent) Telephone (202) 331-7111	2. EXCESS CLAIM FEES							Small Entity			
Each independent claims over 3 (including Reissues) Multiple dependent claims Total Claims Extra Claims Fee (\$) Fee Paid (\$) Multiple Dependent Claims Fee (\$) Fee Paid (\$) Indep. Claims 1											
Multiple dependent claims Total Claims 9 - 20 = x = Fee (\$) Fee Paid (\$) Indep. Claims 1 - 3 = x = 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof 14 - 100 = /50 (round up to a whole number) x = 4. OTHER FEE(\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): 1631 Basic National Stage fee 300.00 1632 National Stage Examination Fee - all other 200.00 1632 National Stage Search Fee - all other situations 500.00 SUBMITTED BY Registration No. (Attomey/Agent) 24,510 Telephone (202) 331-7111	, ,	•									
Total Claims Extra Claims Fee (\$) Fee Paid (\$) Multiple Dependent Claims 9 -20 = x = Fee Paid (\$) Indep. Claims Extra Claims Fee (\$) Fee Paid (\$) 1 -3 = x = = 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) 14 - 100 = /50 (round up to a whole number) x = 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): 1631 Basic National Stage fee 300.00 1632 National Stage Examination Fee - all other 200.00 1632 National Stage Search Fee - all other situations 500.00 SUBMITTED BY Registration No. (Attomey/Agent) 24,510 Telephone (202) 331-7111	=	cluding Reissues)									
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3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets	9 - 20 =	× = _			<u>Fe</u>	ee (\$)	ree Paid (\$	1			
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets			Fee i	Paid (\$)				_			
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Signature Registration No. (Attorney/Agent) 24,510 Telephone (202) 331-7111	SUBMITTED BY 1	/	,								
Name (Print/Type) Morris Liss Date May 19, 2006	1 1/ 0 1	vo In	مه		24,510	Telephone	(202) 33	1-7111			
	Name (Print/Type) Morris Liss					Date	May 19	2006			